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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,901	03/30/2004	Akihiro Kamemura	51023-018	1318

7590 05/09/2007
McDermott, Will & Emery
600 13th Street, N.W.
Washington, DC 20005-3096

EXAMINER

PHU, PHUONG M

ART UNIT	PAPER NUMBER
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2611

MAIL DATE	DELIVERY MODE
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05/09/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary

Application No.

10/811,901

Applicant(s)

KAMEMURA ET AL.

Examiner

Phuong Phu

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2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 13-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 13-23 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
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| <p>1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</p> <p>2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</p> <p>3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>3/30/04, 3/17/06</u></p> | <p>4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____</p> <p>5) <input type="checkbox"/> Notice of Informal Patent Application</p> <p>6) <input type="checkbox"/> Other: _____</p> |
|--|--|

DETAILED ACTION

1. This Office Action is responsive to the Amendment filed on 3/8/07. Accordingly, claims 13-23 are currently pending; and claims 1-12 and 24-33 are canceled.

Claim Objections

2. Claims 13-23 are objected to because of the following informalities:

Claim 13, line 4, recites the limitation “the road transmission antennas *each have a specific polarization characteristic*”. It is unclear whether the limitation means or implies that each of the road transmission antennas has a distinct polarization characteristic different from each other or from one another. Based on illustrations shown in figures 12 and 13, and pages 50-52 of the Specification, the limitation is suggested to be changed to --the road transmission antennas *each have a specific polarization characteristic different from each other or from one another*--.

Claim 13, lines 7-8, recites the limitation “*a plurality of vehicle reception antennas having different polarization* for receiving the waves”. It is unclear whether the limitations means or implies that all of the plurality of vehicle reception antennas have a distinct/different polarization, or each of the plurality of vehicle reception antennas has a polarization different from each other or from one another for receiving the waves. Based on illustrations shown in figures 12 and 13, and pages 50-52 of the Specification, the limitation is suggested to be changed to -- *a plurality of vehicle reception antennas each having a polarization characteristic different from each other or from one another* for receiving the waves --.

Similarly, in claim 19, lines 4-5, the limitation “vehicle transmission antennas with different polarization characteristics” is suggested to be changed to -- vehicle transmission

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antennas each having a polarization characteristic different from each other or from one another

--.

Similarly, in claim 19, line 7, the limitation "the plural road reception antennas each have a specific polarization characteristic" is suggested to be changed to --the plural road reception antennas each have a polarization characteristic different from each other or from one another --.

Appropriate correction is required.

Claims, depended on above claims, are therefore also objected.

Allowable Subject Matter

3. Claims 13-23 would be allowable if rewritten or amended to overcome the objection(s), set forth in this Office action.

Conclusion

4. This application is in condition for allowance except for the above formal matters.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. References 5724666 and 6049705 are cited because they are pertinent to the claimed system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu
Phuong Phu
04/29/07

PHUONG PHU
MARY EXAMINER

Phuong Phu
Primary Examiner
Art Unit 2611